

COMPLEX PROBLEMS · PRECISE SOLUTIONS

Facilities & Capabilities

Bozeman CNC is a family-owned aerospace & defense machine shop in Belgrade, Montana. Six CNC machining centers — 3-, 4- and 5-axis milling plus mill-turn — backed by precision turning, surface grinding, in-house CMM and vision metrology, and robotic automation for lights-out production. From first-article prototypes to flight hardware, with full digital traceability on every part.

- AS9100D CERTIFIED
- ITAR REGISTERED
- CMMC LEVEL 2 · SELF-ASSESSED
- CAGE 11JD4

6 CNC MACHINING CENTERS	5-Axis MILLING + MILL-TURN	60K MAX SPINDLE RPM	24/7 LIGHTS-OUT CAPABLE
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BELGRADE, MONTANA · FAMILY-OWNED · PROTOTYPE + FLIGHT HARDWARE

WHAT MATTERS TO YOU

Size, materials, speed, and precision

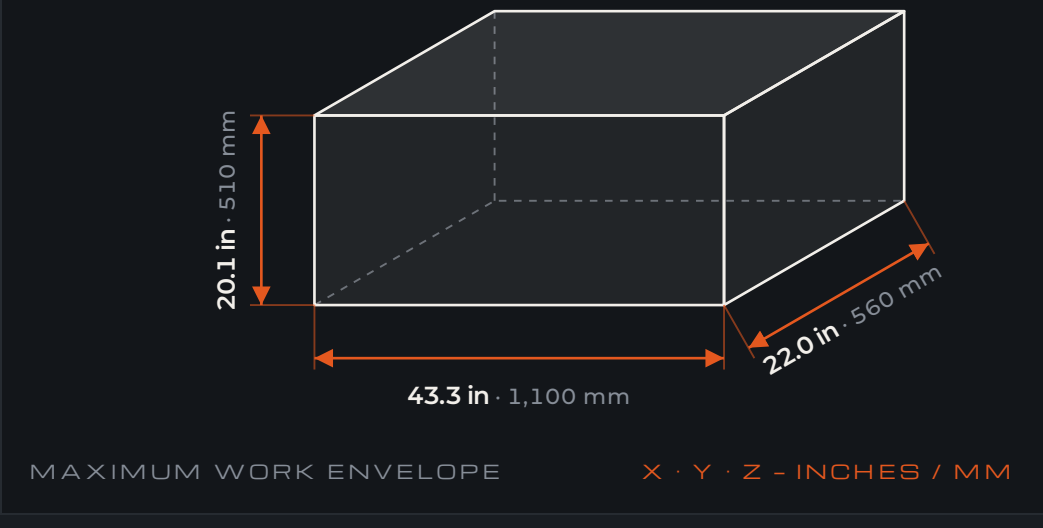
Every job comes down to four questions about your part — how big, what material, how fast, and how exact. Here is where we stand on each.

— WORK-PIECE RANGE

From Swiss-size parts to a **43-inch** envelope

Small, intricate turned-and-milled components run on the mill-turn; large plates, housings and structural brackets go to the big verticals; and anything with critical angled features is finished in one setup on 5-axis.

LARGEST	43.3 × 22.0 × 20.1 in 1,100 × 560 × 510 mm work cube · parts to 2,200 lb
5-AXIS	Ø 33 × 20 in Ø 840 × 500 mm swing · to 1,300 lb · one setup
FLAT PLATE	40 × 33 in bed 1,020 × 830 mm · high-speed aluminum & plastics
SMALLEST	Swiss-size Intricate turned + milled parts, bar-fed, complete in one op



MAXIMUM WORK ENVELOPE X · Y · Z · INCHES / MM

— MATERIALS

Aerospace metals through engineering plastics, with material certifications and full traceability on every order.

AluminumTitanium

Stainless steels

Inconel & nickel superalloys

Tool & alloy steelsCopper & brass

PEEK · Delrin · UltemComposites

— LEAD TIMES

Fast and predictable. Robotic machine tending keeps spindles cutting after hours, and a fully paperless shop flow keeps every job scheduled and visible from quote to shipment — so quick-turn prototypes stay quick and production ships on the date we commit to.

Powered By

PROSHOP

Digital Manufacturing Ecosystem

— PRECISION

Tight-tolerance work held and proven in-house. 5-axis and Swiss machining verified on Keyence optical and CMM metrology under an AS9100D quality system — first articles ship with ballooned AS9102 reports and complete material traceability.

INSPECTION

HighDR

AS9102 FIRST-ARTICLE REPORTS

EQUIPMENT

The floor

A deliberate mix of envelope, speed, and precision — larger 3-axis work, true 5-axis and mill-turn for complex geometry, high-speed cells, and dedicated metrology, all set up for robotic machine tending and unattended runs.

— CNC MILLING · 4 MACHINING CENTERS

5-AXIS

DMG Mori DMU 75 monoBLOCK
5-AXIS SIMULTANEOUS

TRAVELS	29.5 × 25.6 × 22.0 in 750 × 650 × 560 mm
MAX PART	Ø 33 × 20 in Ø 840 × 500 mm · 1,300 lb
SPINDLE	20,000 rpm · HSK-A63

Shines at: one-and-done setups. Complex contours and critical true-position features machined complete in a single clamping — no re-fixturing, no stack-up error, more accuracy.

3-AXIS VMC

DMG Mori CMX 1100 V
VERTICAL MACHINING CENTER

TRAVELS	43.3 × 22.0 × 20.1 in 1,100 × 560 × 510 mm
MAX PART	2,200 lb 1,000 kg
SPINDLE	15,000 rpm · CAT40

Shines at: the big stuff. Larger housings, plates and brackets — two identical machines run in parallel for throughput and redundancy.

HIGH-SPEED · 4-AXIS

Datron M8Cube
HIGH-SPEED + 4TH AXIS

TRAVELS	40 × 33 × 10 in 1,020 × 830 × 245 mm
SPINDLE	up to 60,000 rpm
4TH AXIS	Rotary

Shines at: large flat-plate work in aluminum and plastic — and it is exceptionally accurate. Fine features, thin walls and engraving across a 40 × 33 in bed.

HIGH-SPEED · 30-TAPER

Brother Speedio S700Xd2
DRILL · TAP · MILL

TRAVELS	27.6 × 17.7 × 11.8 in 700 × 450 × 300 mm
SPINDLE	27,000 rpm · BT30

Shines at: fast-cycle production milling, drilling and tapping — short chip-to-chip times keep unit cost down.

— MILL-TURN · SWISS MICRO-PRECISION

5-AXIS MILL-TURN

Willemin-Macodel 408MT
TURNING + MILLING, BAR-FED

PROCESS	Simultaneous turn + mill
SPINDLE	HSK-E40 · high-speed

Shines at: volume. Large production quantities turned and milled complete in a single setup, bar-fed for continuous, unattended run time.

— TURNING & GRINDING

PRECISION LATHE

Hardinge HLV-H
SUPER-PRECISION TOOLROOM

SWING	~11 in over bed
CENTERS	~18 in between
SPINDLE	125–3,000 rpm

Super-precision turned parts and exceptional surface finishes on small-diameter work.

SURFACE GRINDING

Surface Grinder
PRECISION FLATS & TOOLING

TABLE	6 × 18 in
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Ground flats, parallels and in-house tooling and fixtures held to fine tolerance.

— METROLOGY & INSPECTION · IN-HOUSE

OPTICAL MEASUREMENT

Keyence IM-X1540
IMAGE DIMENSION SYSTEM

TYPE	Automated optical
STAGE	Large-format
THROUGHPUT	Dozens of dims / scan

Fast, repeatable, operator-independent dimensional inspection for first articles and in-process checks.

CMM

Keyence XM-5000A
HANDHELD PROBE CMM

TYPE	Probe + camera
RANGE	Wide-area volume
OUTPUT	Full GD&T reports

Coordinate measurement and GD&T on large or complex parts — taken to the part, anywhere on the floor.

— AUTOMATION

LIGHTS-OUT

Robotic Machine Tending
A.K.A. WILSON

RUNS	Extended-hours & lights-out
COVERAGE	Any machine on the floor

Meet Wilson — yes, named after the one from *Cast Away*. He keeps the crew company on the night shift and tends machines so parts keep cutting after hours: more spindle time, steadier lead times, no second shift. And unlike the first Wilson, this one isn't going anywhere.



PICK & PLACE · HOW WILSON TENDS OUR MACHINES OVERNIGHT

WHY BOZEMAN CNC

Quality and on-time delivery are the price of admission.

We strive for better.

PEOPLE

FAMILY-OWNED · PEOPLE WHO CARE.

Family-owned, with people who truly care about their work. You deal directly with the machinists on the shop floor — the people who read your print and take it personally that every part ships right.

CULTURE

PROBLEM SOLVERS. WE LOVE A CHALLENGE.

We are problem solvers who love a challenge. We're passionate about manufacturing, and about putting the latest technology to work to achieve quality and precision above expectation.

TECHNOLOGY

WE INVEST IN WHAT'S NEXT.

Deliberate investment in state-of-the-art machinery and automation: 5-axis and Swiss mill-turn, 60,000-rpm high-speed milling, robotic machine tending for lights-out runs, in-house optical and CMM metrology, and a paperless shop from quote to ship.

QUALIFIED SUPPLIER

Certifications & registrations

QUALITY SYSTEM

AS9100D

Certified aerospace quality management system (ISO 9001 + aviation, space & defense requirements).



REG. NO. USD62-QCM
TQCSI QUALITY CERTIFIED
ANAB ACCREDITED

EXPORT CONTROL

ITAR

Registered with the U.S. State Department (DDTC) for the manufacture of defense articles.

CYBERSECURITY

CMMC L2

NIST SP 800-171 controls implemented. Level 2 self-assessment on file.

GOV. CONTRACTING

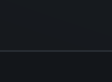
CAGE 11JD4

Commercial and Government Entity code for direct U.S. government and prime contracting.

Have a part that other shops **turn away?**

REQUEST A QUOTE →

BELGRADE, MT · (406) 780-9911 · [BOZEMANCNC.COM](https://www.bozemancnc.com)

BOZEMAN CNC

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